

Far Eastern Entomologist

Number 362: 21-24

ISSN 1026-051X

July 2018

<https://doi.org/10.25221/fee.362.4>

<http://urn:lsid:zoobank.org:pub:15B31BA4-2BA1-47A9-809E-084FEEE0C3D7>

THE FAUNA OF PLUME MOTHS (LEPIDOPTERA: PTEROPHORIDAE) OF THE REPUBLIC OF KHAKASSIA

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Summary. An annotated list of 17 species of the plume moths (Lepidoptera: Pterophoridae) of the Republic of Khakassia is given. Fifteen species are recorded from this region for the first time.

Key words: Lepidoptera, Pterophoridae, plume moths, fauna, new records, Siberia, Russia.

П. Я. Устюжанин, В. Н. Ковтунович. Fauna пальцекрылок (Lepidoptera: Pterophoridae) Хакасии // Дальневосточный энтомолог. 2018. N 362. С. 21-24.

Резюме. Приводится аннотированный список 17 видов пальцекрылок (Lepidoptera: Pterophoridae) республики Хакасия, из них 15 видов впервые отмечаются для фауны данного региона.

INTRODUCTION

The Republic of Khakassia is located in southern Siberia in the left bank part of the Yenisei River basin, on the territories of the Altai-Sayan upland and the Khakassko-Minusinsk depression. Most of Khakassia is occupied by hills and mountains, and is rich in steppes, some parts of which are preserved in their natural form.

There were no special works on the Pterophoridae fauna of Khakassia until now. The present work includes the materials collected during more than 30 years by the first author and other collectors in follow sites: Agaskyr – Ordzhonikidzevsky Distr., vil. Agaskyr, 528 m, 55°58'N, 89°19'E; Azrakov – Beyskiy Distr., vil. Azrakov, 306 m, 53°18'N, 90°53'E; Bele – Shira Distr., north bank of the lake Bele, 384 m, 54°41'N, 90°07'E; Berezovka – Altai Distr., vil. Berezovka, 53°24'N, 91°39'E; Bol'shoi On – Tashtyp Distr., vil. Bol'shoi On, 52°04'N, 89°45'E; Cheryomushki – 32 km South of Sayanogorsk, Cheryomushki, 320 m, 52°50'N, 91°24'E; Efremkino – Shira Distr., The Bely Iyus River valley, 2 km upstream of vil. Efremkino, 492 m, 54°27'N, 89°26'E; Itkol – Shira Distr., Shira-Inkol' lakes env., 54°27'N, 90°05'E; Kop'evo – Ordzhonikidzevsky Distr., hills NE of vil. Kop'evo, 54°59'N, 89°49'E; M. Syiya – Shira Distr., vil. Malaya Syiya, 54°24'N, 89°26'E; Shira – Shira Distr., neighborhoods of the vil. Shira, 350 m, 54°29'N, 89°57'E.

Despite the diversity of the natural landscapes and the favorable climate of Khakassia, only 17 Pterophoridae species have been reported from this territory, which is mostly explained by weak research intensity.

AN ANNOTATED LIST OF PTEROPHORIDAE OF KHAKASSIA

Agdistis adactyla (Hübner, [1819])

MATERIAL EXAMINED. **Khakhassia**: Berezovka, 02–05.VII 1986, 1♂, 1♀ (P. Ustjuzhanin).

DISTRIBUTION. Temperate zone of the Palaearctic. This species was recorded from Khakassia by Ustjuzhanin (1996).

Gillmeria pallidactyla (Haworth, 1811)

MATERIAL EXAMINED. **Khakhassia**: M. Syiya, 17–18.VII 1998, 3♂ (V. Zinchenko).

DISTRIBUTION. Temperate zone of the Palaearctic; North America.

Gillmeria stenoptiloides (Filipjev, 1927)

MATERIAL EXAMINED. **Khakhassia**: Shira, 21–24.VI 2011, 1♂ (K. Tomkovich).

DISTRIBUTION. Siberia, Russian Far East, Mongolia, China, Japan (Honshu).

Paraplatyptilia metzneri (Zeller, 1841)

MATERIAL EXAMINED. **Khakhassia**: Kop'evo, 1.VII 2000, 1♂ (O. Kosterin).

DISTRIBUTION. Europe, Iran, Asia Minor, Armenia, Azerbaijan, Kyrgyzstan, Uzbekistan, Kazakhstan, Tajikistan, NW China, South Siberia, Mongolia.

Paraplatyptilia terminalis (Erschoff, 1877)

MATERIAL EXAMINED. **Khakhassia**: Kop'evo, 1.VII 2000, 1♂ (O. Kosterin).

DISTRIBUTION. Siberia, NE China, Russian Far East (Kamchatka).

Stenoptilia coprodactyla (Stainton, 1851)

MATERIAL EXAMINED. **Khakhassia**: Itkol, 25–28.VI 2011, 2♂ (K. Tomkovich).

DISTRIBUTION. Europe, Asia Minor, Caucasus, Middle Asia, southern Siberia.

Cnaemidophorus rhododactyla (Denis et Schiffermuller, 1775)

MATERIAL EXAMINED. **Khakhassia**: M. Syiya, 21–22. VII 1998, 1♂ (V. Zinchenko).

DISTRIBUTION. Holarctic region.

Caperia trichodactyla (Denis et Schiffermuller, 1775)

MATERIAL EXAMINED. **Khakhassia**: M. Syiya, 15–16.VII 1998, 1♀ (V. Zinchenko).

DISTRIBUTION. Europe, Siberia, Russian Far East, Japan, China.

Oxyptilus chrysodactylus (Denis et Schiffermüller, 1775)

MATERIAL EXAMINED. **Khakhassia**: Cheryomushki, 27–28.VII 1996, 2♂, 2♀ (P. Ustjuzhanin).

DISTRIBUTION. Europe, Caucasus, Siberia, Russian Far East (Amur River basin, Primorskiy krai, Sakhalin), China (Heilongjiang), Japan.

***Crombrugghia distans* (Zeller, 1847)**

MATERIAL EXAMINED. **Khakhassia**: Cheryomushki, 24.VII 1996, 1♂ (P. Ustjuzhanin).

DISTRIBUTION. North Africa, Europe, Caucasus, Asia Minor, Iran, Afghanistan, India, the Himalaya, Central Asia, Kazakhstan, China, southern Siberia.

***Hellinsia inulae* (Zeller, 1852)**

MATERIAL EXAMINED. **Khakhassia**: Bele, 15.VII 2013 (larva) – 2.VIII 2013 (adult), 3♂, 1♀ (M. Shcherbakov).

DISTRIBUTION. Europe, N Africa, Kazakhstan, Middle Asia, Siberia.

***Hellinsia tephradactyla* (Hübner, [1813])**

MATERIAL EXAMINED. **Khakhassia**: Agaskyr, 17–18.VII 1975, (1♂, collector unknown).

DISTRIBUTION. Europe, southern Siberia, Yakutia.

***Hellinsia didactylites* (Strom, 1783)**

MATERIAL EXAMINED. **Khakhassia**: Cheryomushki, 24–25.VII 1996, 1♂, 1♀ (P. Ustjuzhanin); Itkol, 25–28.VI 2011, 1♂ (K. Tomkovich); Bol'shoi On, 21.VI 2010, 1♀ (R. Yakovlev).

DISTRIBUTION. Europe, Kazakhstan, Central Asia, Siberia, Russian Far East, China (Jilin, Shaanxi).

***Hellinsia lienigiana* (Zeller, 1852)**

MATERIAL EXAMINED. **Khakhassia**: Cheryomushki, 24–25.VII 1996, 2♀ (P. Ustjuzhanin); M. Syiya, 15–21.VII 1998, 7 ex. (V. Zinchenko); Efremkino, 3.VII 2000, 1♂, 1♀ (O. Kosterin); Berezovka, 3.VII 1986, 1♂ (P. Ustjuzhanin).

DISTRIBUTION. Europe, Siberia, the Far East, Japan, Korea, China (Shaanxi, Zhejiang, Fujian, Jiangxi, Shandong, Hunan, Guizhou, Taiwan). This species was recorded from Khakhassia by Ustjuzhanin (1996).

***Hellinsia mongolica* (Zagulajev et Pentschukowskaya, 1972)**

MATERIAL EXAMINED. **Khakhassia**: Azrakov, 22.VI 2010, 1♀ (R. Yakovlev).

DISTRIBUTION. The mountains of South Siberia, Mongolia, Yakutia, China.

***Hellinsia osteodactylus* (Zeller, 1841)**

MATERIAL EXAMINED. **Khakhassia**: M. Syiya, 22–23.VII 1998, 1♀, (V. Zinchenko).

DISTRIBUTION. Europe, Caucasus, Kazakhstan, Middle Asia, Siberia, Russian Far East, Mongolia, China (Heilongjiang, Shandong, Shanxi, Xinjiang, Yunnan, Ningxia), Japan.

***Emmelina monodactyla* (Linnaeus, 1758)**

MATERIAL EXAMINED. **Khakhassia**: Efremkino, 3.VII 2000, 1♀ (O. Kosterin).

DISTRIBUTION. North Africa, Europe, Caucasus, Central Asia, Kazakhstan, southern Siberia eastward to Tuva, Mongolia, China, India, Philippines, North and South America.

CONCLUSION

Despite the relatively small list of Pterophoridae species represented in the current overview, these data are the first for the territory of Khakassia. We assume that during the future research, at least 20 more species from such genera as *Platyptilia*, *Stenoptilia*, *Amblyptilia*, *Hellinsia*, *Merrifieldia* can be added to this list. For comparison, the Pterophoridae fauna of such neighboring republics as Altai and Tuva counts 53 and 37 species respectively (Ustjuzhanin & Kovtunovich, 2007, 2008, Ustjuzhanin *et al.*, 2017), and there is no doubt that the species diversity of Pterophoridae in Khakassia is not less rich.

ACKNOWLEDGEMENTS

The authors are grateful for the assistance in collecting Pterophoridae on the territory of the Republic of Khakassia to V. Zinchenko, O. Kosterin, (Novosibirsk, Russia), R. Yakovlev (Barnaul, Russia), M. Shcherbakov (Tomsk, Russia), and K. Tomkovich (Moscow, Russia).

The results were obtained within the framework of the state task No. 6.2884.2017/4.6 Ministry of Education and Science of Russian Federation.

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